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APPLICATION NO. FILING DATE FIRST NAMED INVENTOR ATTORNEY DOCKET NO. CONFIRMATION NO. 09/783,657 02/14/2001 Wang-Chien Lee 00-8013 8964 EXAMINER 32127 7590 10/22/2004 VERIZON CORPORATE SERVICES GROUP INC. LY, ANH C/O CHRISTIAN R. ANDERSEN ART UNIT PAPER NUMBER 600 HIDDEN RIDGE DRIVE MAILCODE HQEO3H14 2162 IRVING, TX 75038

DATE MAILED: 10/22/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)	
Office Action Summary	09/783,657	LEE ET AL.	
	Examiner	Art Unit	
	Anh Ly	2162	
The MAILING DATE of this communication ap Period for Reply	pears on the cover sheet with t	he correspondence address	
A SHORTENED STATUTORY PERIOD FOR REPL THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.  after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a rep.  - If NO period for reply is specified above, the maximum statutory period.  - Failure to reply within the set or extended period for reply will, by statut Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	136(a). In no event, however, may a reply oly within the statutory minimum of thirty (30 I will apply and will expire SIX (6) MONTHS te, cause the application to become ABANI	be timely filed  ) days will be considered timely.  from the mailing date of this communication.  ONED (35 U.S.C. § 133).	
Status			
1) Responsive to communication(s) filed on 02.	<i>July 2004</i> .		
2a) ☐ This action is <b>FINAL</b> . 2b) ☐ Thi	s action is non-final.		
3) Since this application is in condition for allowa	ance except for formal matters	prosecution as to the merits is	
closed in accordance with the practice under	Ex parte Quayle, 1935 C.D. 1	I, 453 O.G. 213.	
Disposition of Claims			
4) Claim(s) 1-74 is/are pending in the application 4a) Of the above claim(s) is/are withdra 5) Claim(s) is/are allowed. 6) Claim(s) is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or	awn from consideration.		
Application Papers			
9) ☐ The specification is objected to by the Examin  10) ☑ The drawing(s) filed on 14 February 2001 is/an  Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct to by the E	re: a) $\square$ accepted or b) $\square$ objoint and one of accepted in abeyance. Continuity of the drawing (s) is the drawing (s) in the	See 37 CFR 1.85(a). s objected to. See 37 CFR 1.121(d).	
Priority under 35 U.S.C. § 119			
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of:  1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority application from the International Bureat * See the attached detailed Office action for a list	its have been received. Its have been received in Applority documents have been recau (PCT Rule 17.2(a)).	cation No eived in this National Stage	
Attachment(s)			
Notice of References Cited (PTO-892)	4) 🔲 Interview Sumi		
<ul> <li>Notice of Draftsperson's Patent Drawing Review (PTO-948)</li> <li>Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08 Paper No(s)/Mail Date</li> </ul>		ail Date nal Patent Application (PTO-152)	

#### **DETAILED ACTION**

### Response to Arguments

This Office Action is response to Applicants' communications filed 07/02/2004.
 The arguments are not persuasive.

Applicants argued that, "the combination of Cheng and Lee does not discloses or suggest the functionality of "Automatically generating the schema for the relational database from the metadata." (Page 13, lines 14-16).

Cheng et al. of 6,519,597 (hereinafter Cheng) teaches an XML extender for a computer-implemented relational database system for storing, querying and retrieving a structured document or XML document and document type definition (DTD). The DTD table represents a DTD with additional metadata information and stores metadata regarding XML in the database (col. 11, lines 60-65 and col. 12, lines 35-38). The ADT is a relational facility introduced by DB2 allowing the user to define and distinct data, and the XML extender creates an ADT called DB2XML for storing and retrieving XML document. With DB2, a set of methods called accessor methods is automatically generated when DB2XML created including the metadata of XML documents ('597 of col. 7, lines 16-30). Also Lee et al. of 6,480,865 (hereinafter Lee) teaches XML schemas specifying constraints on the structures and types of elements in an XML documents

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being made up of storage units called entities (col. 2, lines 5-62) and automatically generate and transform with the transformed XML document including the schema for a DBs2, a relational database (col. 3, lines 40-54).

Applicants argued that, "The teaching of Lee are completely silent as to automatically reading a DTD that extracts metadata." (Page 15, lines 2-3).

Lee teaches the basic schema for XML is the DTD. In a typical application, XML is use for a particular specification, there would be a DTD that specifies XML schema and one or more XML documents that satisfy that schema (col. 3, lines 4-8) and a software module called an XML processor is used to read XML documents and provide access to their content and structure (col. 2, lines 63-67).

2. Claims 1-74 are pending in this application.

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# Claim Rejections - 35 USC § 103

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- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).
- 5. Claims 1-10, 12-17, 30-47 and 61-74 are rejected under 35 U.S.C. 103(a) as being unpatentable over US Patent No. 6,519,597 issued to Cheng et al. (hereinafter Cheng) in view of US Patent No. 6,480,865 issued to Lee et al. (hereinafter Lee).

With respect to claim 1, Cheng discloses the steps of: extracting (24) metadata (34) representative of the document-type definition (18) from the document -type definition (18) (metadata of XML document consisting of DTD elements or components which are retrieved, searched or stored by users after integrating the XML documents

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into relational database system: col. 11, lines 58-65; also see col. 7, lines 20-28 and lines 40-42; XML extender for storing and retrieving XML documents);

the schema (22) for the relational database (14) from the metadata (34), wherein at least one table (20) is thereby defined in the relational database (14) corresponding to at least one content particle of the document-type definition (18) via the metadata (34) (schema or metadata of XML is a place where data types, definitions and restrictions of usage are defined or documented: col. 3, 12-18 and lines 25-31);

and loading (30) the document data (16) into the at least one table (20) of the relational database (14) according: to the relational schema (22) in a manner driven by the metadata (34) (XML extender is used to store XML document; see fig. 4; see abstract lines 1-7 and col. 3, lines 25-31 and tables are created are XML table including one or more XML column from which the metadata is regarded (col. 12, lines 35-50 and DTD reference table col. 11, lines 58-65).

Cheng teaches an XML extender for a computer implemented relational database system for storing, querying and retrieving a structured document or XML document, and document type definition (DTD). The DB2XML being created from XML extender is automatically generated and integrating XML document into the database system. DB2XML is the place where the metadata of XML document or XML schema to be stored. Chang does not explicitly teach automatically generating the schemas for the relational database.

However, Lee teaches XML document as well as XML schema are automatically generated and transformed (col. 3, lines 45-54 and col. 9, lines 30-38).

Therefore, it would have been obvious to a person of ordinary skill in the art at the time the invention was made to combine the teachings of Cheng with the teachings of Lee by incorporating the use of the XML document that specify the schema with the XML extender of DB2 (Lee - col. 9, lines 30-38). The motivation being to have made the schema generation method for generating a schema relational database from metadata of XML and it would provide an application for storing XML documents in existent or newly created columns of a relational database table in the storing XML in the relational database environment.

With respect to claim 2, Cheng discloses generating (28) an item metadata table (90) corresponding to element type content particles in the document-type definition (18) (col. 11, lines 60-65; also see col. 5, lines 32-60 for DTD elements).

With respect to claim 3, Cheng discloses creating at least one default item in the item metadata table (90) (XML column in XML table: col. 12, lines 35-38).

With respect to claim 4, Cheng discloses updating the item metadata table (90) with each of the element type content particles the document-type definition (I8) (col. 8, lines 15-19).

With respect to claim 5, Cheng discloses generating (28) an attribute metadata table (92) corresponding to attribute type content particles in the document--type definition (18) (col. 8, lines 57-67; also see col. 9, lines 1-3 and lines 57-60 and col. 5, lines 32-60 for element types of DTD by an example).

With respect to claim 6, Cheng discloses creating a default attribute value in the attribute metadata table (92) corresponding to attributes of element types in the

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document-type definition (18) (col. 8, lines 53-67 and col. 9, lines 1-3; also see col. 5, lines 32-60).

With respect to claim 7, Cheng discloses updating, the attribute metadata table (92) with each of the attribute type content particles of each element type of the document-type definition (18) (col. 8, lines 15-19 also see col. 5 lines 32-60 for element types of DTD).

With respect to claim 8, Cheng discloses generating a nesting metadata table (94) for storing data items corresponding to nesting relationships implied in the document-type definition (18) (XML document is a nested document structures and associated semantics: col. 1, lines 45-50; see col. 14, lines 36-42: the content of XML document is used by SQL query statements defining the containment relationship, which is a nesting relationship).

With respect to claim 9, Cheng discloses generating a row in the nesting metadata table (94) corresponding to each relationship between items identified in the item metadata table (90) (row of DTD in XML document: col. 11, lines 60-65; XML document is a nested document structures and associated semantics: col. 1, lines 45-50; see col. 14, lines 36-42: the content of XML document is used by SQL query statements defining the containment relationship, which is a nesting relationship).

With respect to claim 10, Cheng discloses wherein the generated nesting table (94) row indicates the cardinality between a pair of items (row of DTL and XML column: col. 47, lines 60-65 and col. 12, lines 45-50).

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With respect to claim 12, Cheng discloses generated nesting table (94) row indicates a relationship between a parent item and a child item (tree structure of document such as B-tree: col. 14, lines 62-67 and col. 15, lines 1-15; also see figs. 9 and 10).

With respect to claim 13, Cheng discloses the generated nesting table (94) row indicates a relative position of a child item with respect to other items in a definition of the corresponding parent item (col. 15, lines 61-65 and col. 16, lines 5-8).

With respect to claim 14, Cheng discloses creating at least one table in the schema (22) of the relational database corresponding to at least one row of the metadata item table (90) (col. 3, lines 12-18 and col. 11, lines 58-67).

With respect to claim 15, Cheng discloses generating (28) at least one default field in the table of the schema (22) (col. 2, lines 60-67).

With respect to claim 16, Cheng discloses altering the schema (22) of the relational database to add at least one column to the at least one table in the relational database (14) schema (22) corresponding to each row of the metadata attribute table (92) (col. 2, lines 60-67 and col. 12, lines 16-52; for schema: col. 3, 12-18 and lines 25-31).

With respect to claim 17, Cheng discloses altering the tables in the schema (22) of the relational database to add columns representing links between tables (20) of the relational database schema (22) corresponding to each relationship identified in each row of the metadata nesting table (94) (col. 12, lines 16-52 and col. 14, lines 36-42; for schema: col. 3, 12-18 and lines 25-31).

With respect to claims 30-36, Cheng discloses optimizing (26) the metadata (col. 11, lines 58-67); eliminating duplicate particle references in the metadata (col. 17, lines 50-61 also see fig. 13); simplifying references to corresponding elements, links and attributes in the metadata (col. 3, lines 12-18 and lines 45-50; also see col. 7, lines 40-46); inlining particular attributes of the metadata (col. 2, lines 60-64 and col. 3, lines 12-18 and lines 45-50); wherein the document (12) is an XML document (col. 3, lines 32-36); wherein the document-type definition (18) is a DTD (col. 8, lines 53-55); and wherein the data (16) is tagged data (col. 14, lines 45-49 and col. 15, lines 58-67; also see col. 16, lines 1-8).

Claim 37 is essentially the same as claim 1 except that it is directed to a system rather than a method, and is rejected for the same reason as applied to the claim 1 hereinabove.

Claim 38 is essentially the same as claim 2 except that it is directed to a system rather than a method, and is rejected for the same reason as applied to the claim 2 hereinabove.

Claim 39 is essentially the same as claim 3 except that it is directed to a system rather than a method, and is rejected for the same reason as applied to the claim 3 hereinabove.

Claim 40 is essentially the same as claim 4 except that it is directed to a system rather than a method, and is rejected for the same reason as applied to the claim 4 hereinabove.

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Claim 41 is essentially the same as claim 5 except that it is directed to a system rather than a method, and is rejected for the same reason as applied to the claim 5 hereinabove.

Claim 42 is essentially the same as claim 6 except that it is directed to a system rather than a method, and is rejected for the same reason as applied to the claim 6 hereinabove.

Claim 43 is essentially the same as claim 8 except that it is directed to a system rather than a method, and is rejected for the same reason as applied to the claim 8 hereinabove.

Claim 44 is essentially the same as claim 9 except that it is directed to a system rather than a method, and is rejected for the same reason as applied to the claim 9 hereinabove.

Claim 45 is essentially the same as claim 14 except that it is directed to a system rather than a method, and is rejected for the same reason as applied to the claim 14 hereinabove.

Claim 46 is essentially the same as claim 16 except that it is directed to a system rather than a method, and is rejected for the same reason as applied to the claim 16 hereinabove.

Claim 47 is essentially the same as claim 17 except that it is directed to a system rather than a method, and is rejected for the same reason as applied to the claim 17 hereinabove.

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Claim 61 is essentially the same as claim 30 except that it is directed to a system rather than a method, and is rejected for the same reason as applied to the claim 30 hereinabove.

Claim 62 is essentially the same as claim 31 except that it is directed to a system rather than a method, and is rejected for the same reason as applied to the claim 33 hereinabove.

Claim 63 is essentially the same as claim 32 except that it is directed to a system rather than a method, and is rejected for the same reason as applied to the claim 29 hereinabove.

Claim 64 is essentially the same as claim 34 except that it is directed to a system rather than a method, and is rejected for the same reason as applied to the claim 34 hereinabove.

Claim 65 is essentially the same as claim 35 except that it is directed to a system rather than a method, and is rejected for the same reason as applied to the claim 35 hereinabove.

Claim 66 is essentially the same as claim 36 except that it is directed to a system rather than a method, and is rejected for the same reason as applied to the claim 36 hereinabove.

With respect to claim 67, Cheng discloses an extractor (24) adapted to a document-type definition (18) that extracts metadata (34) representative of the document-type definition (18) from the document-type definition (18), wherein the extractor stores the metadata (34) in at least three tables comprising a metadata item

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table (90) containing metadata (34) representative of element types in the document-type definition (18), a metadata attribute table (92) containing metadata (34) representative of attributes in the document type definition (18), and a metadata nesting table (94) containing metadata (34) representative of nesting relationships between particles in the document type definition (18) (Cheng discloses extenders for extracting, generating and loading such as XML extender and relational extender; metadata of XML document consisting of DTD elements or components which are retrieved, searched or stored by users after integrating the XML documents into relational database system: col. 11, lines 58-65; also see col. 7, lines 20-28 and lines 40-42; XML extender for storing and retrieving XML documents; col. 3, 12-18 and lines 25-31; and XML extender is used to store XML document; see fig. 4; see abstract lines 1-7 and col. 3, lines 25-31 and tables are created are XML table including one or more XML column from which the metadata is regarded: col. 12, lines 35-50 and DTD reference table col. 11, lines 58-65).

Cheng teaches an XML extender for a computer implemented relational database system for storing, querying and retrieving a structured document or XML document, and document type definition (DTD). The DB2XML being created from XML extender is automatically generated and integrating XML document into the database system. DB2XML is the place where the metadata of XML document or XML schema to be stored. Chang does not explicitly teach read automatically a document-type definition that extracts metadata representative of the document-type definition.

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However, Lee teaches XML document, DTD as well as XML schema are automatically generated and transformed (col. 3, lines 45-54 and col. 9, lines 30-38).

Therefore, it would have been obvious to a person of ordinary skill in the art at the time the invention was made to combine the teachings of Cheng with the teachings of Lee by incorporating the use of the XML document that specify the schema with the XML extender of DB2 (Lee - col. 9, lines 30-38). The motivation being to have made the schema generation method for generating a schema relational database from metadata of XML and it would provide an application for storing XML documents in existent or newly created columns of a relational database table in the storing XML in the relational database environment.

With respect to claim 68, Cheng disclose a pattern-mapping table (36) initially constructed in an initialized state (col. 13, lines 46-50).

With respect to claim 69, Cheng discloses wherein the pattern mapping table (36) is loaded with actions indicative of relationships between the data (16) and the document-type definition (col. 7, lines 17-22 and col. 13, lines 46-50).

With respect to claim 70, Cheng disclose a generator (28) operably interconnected to the extractor (24) for generating (28) the schema (22) for the relational database (14) from the metadata (34), wherein at least one table (20) is thereby defined in the relational database (14) corresponding to at least one content particle of the document-type definition (18) via the metadata (see abstract lines 1-7 and col. 3, lines 25-31 and tables are created are XML table including one or more XML

column from which the metadata is regarded: col. 12, lines 35-50 and DTD reference table col. 11, lines 58-65).

With respect to claim 71, Cheng discloses wherein the generator (28) forms a table (20) with at least one default field in the relational database (4) for each item contained in the metadata item table (col. 11, lines 60-65 and col. 14, lines 36-42).

With respect to claim 72, Cheng discloses wherein the generator (28) forms a column in a corresponding table (20) in the relational schema (22) corresponding to each attribute in the metadata attribute table (92) linked to an item in the metadata item table (col. 3, lines 12-18 and col. 11, lines 58-67).

With respect to claim 73, Cheng discloses wherein the generator (28) forms a link between tables in the relational database corresponding to nesting relationships contained in the metadata nesting table (col. 12, lines 16-52 and col. 14, line4s 36-42).

With respect to claim 74, Cheng discloses a loader (30) operably interconnected to the generator (213) for loading the document data (16) into the at least one table (20) of the relational database (14) according to the relational schema (22) and driven by the metadata (Cheng discloses extenders for extracting, generating and loading such as XML extender and relational extender; metadata of XML document consisting of DTD elements or components which are retrieved, searched or stored by users after integrating the XML documents into relational database system: col. 11, lines 58-65; also see col. 7, lines 20-28 and lines 40-42; XML extender for storing and retrieving XML documents; and see abstract lines 1-7 and col. 3, lines 25-31 and tables are

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created are XML table including one or more XML column from which the metadata is regarded: col. 12, lines 35-50 and DTD reference table col. 11, lines 58-65).

6. Claims 11, 18-29, and 48-60 are rejected under 35 U.S.C. 103(a) as being unpatentable over US Patent No. 6,519,597 issued to Cheng et al. (hereinafter Cheng) in view of US Patent No. 6,480,865 issued to Lee et al. (hereinafter Lee) and further in view of US Patent No. 6,418,448 issued to Sarkar.

With respect to claim 11, Cheng in view of Lee discloses a method for generating a schema for a relational database as discussed in claim 1.

Cheng and Lee disclose substantially the invention as claimed. Cheng and Lee do not teach the cardinality is one-to-one and one-to-many.

However, Sarkar discloses entity-relationship diagram (ER) of two entities of primary key/foreign key relationship for XML/RDF (see fig. 7(a) and 7(b) col. 17, lines 20-41).

Therefore, it would have been obvious to a person of ordinary skill in the art at the time the invention was made to combine the teachings of Cheng in view of Lee with the teachings of Sarkar by incorporating the user of one-to-one and one-to-many relationship via ER for the XML/RDF (col. 17, lines 36-45). The motivation being to have made the schema generation method for generating a schema relational database from metadata of XML and it would provide an application for storing XML documents in

existent or newly created columns of a relational database table in the storing XML in the relational database environment.

With respect to claims 18-19, Cheng in view of Lee discloses a method for generating a schema for a relational database as discussed in claim 1.

Cheng and Lee disclose substantially the invention as claimed. Cheng and Lee do not teach adding a foreign key to a parent table if the identified relationship is a oneto-one relationship; one-to-many relationship.

However, Sarkar discloses entity-relationship diagram (ER) of two entities of primary key/foreign key relationship for XML/RDF (see fig. 7(a) and 7(b) col. 17, lines 20-41).

Therefore, it would have been obvious to a person of ordinary skill in the art at the time the invention was made to combine the teachings of Cheng in view of Lee with the teachings of Sarkar by incorporating the user of one-to-one and one-to-many relationship via ER for the XML/RDF (col. 17, lines 36-45). The motivation being to have made the schema generation method for generating a schema relational database from metadata of XML and it would provide an application for storing XML documents in existent or newly created columns of a relational database table in the storing XML in the relational database environment.

With respect to claims 20-22, Cheng discloses initializing a link table (col. 8, lines 5-10); determining whether each item in the metadata nesting table (94) contains a group type (col. 7, lines 17-22 and col. 18, lines 45-54); and initializing a pattern-mapping table (col. 13, lines 46-50).

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With respect to claims 23-29, Cheng discloses mapping a link into the link table (36) for each item in the metadata nesting table (94) that does not contain a group type (col. 14, lines 36-42 and also see col. 7, lines 17-22); creating an additional link table (36) containing a mapping of a link pattern for each group type identified in the metadata item table (col. 7, lines 17-22 and col. 13, lines 46-50); creating a create tuple loading action in the pattern mapping table (36) associated with a particular pattern corresponding to each item in the item metadata table (col. 12, lines 35-38 and col. 13, lines 46-50); creating an update tuple loading action in the pattern mapping table (36) associated with a particular pattern corresponding to each attribute in the attribute metadata table (col. 12, lines 35-38 and col. 13, lines 46-50); creating a create tuple loading action in the pattern mapping table (36) associated with a particular pattern corresponding to each group in a link; and creating an assign action tuple loading action in the pattern mapping table (36) associated with a particular pattern corresponding to each pair in the same link; corresponding to each lint: in the link pattern table (col. 11, lines 58-67, col. 13, lines 18-22; also see col. 2, lines 12-18 and col. 12, lines 35-38); forming a tree structure (300) with the document data (col. 14, lines 62-67 and col. 15, lines 1-5); and traversing the formed tree (300) and updating the at least one relational database (14) table according to the rows of the pattern mapping table (col. 15, lines 58-67).

Claim 48 is essentially the same as claim 18 except that it is directed to a system rather than a method, and is rejected for the same reason as applied to the claim 18 hereinabove.

Claim 49 is essentially the same as claim 19 except that it is directed to a system rather than a method, and is rejected for the same reason as applied to the claim 19 hereinabove.

Claim 50 is essentially the same as claim 20 except that it is directed to a system rather than a method, and is rejected for the same reason as applied to the claim 20 hereinabove.

Claim 51 is essentially the same as claim 21 except that it is directed to a system rather than a method, and is rejected for the same reason as applied to the claim 21 hereinabove.

Claim 52 is essentially the same as claim 22 except that it is directed to a system rather than a method, and is rejected for the same reason as applied to the claim 22 hereinabove.

Claim 53 is essentially the same as claim 23 except that it is directed to a system rather than a method, and is rejected for the same reason as applied to the claim 23 hereinabove.

Claim 54 is essentially the same as claim 24 except that it is directed to a system rather than a method, and is rejected for the same reason as applied to the claim 24 hereinabove.

With respect to claim 55, Cheng discloses retrieves a preselected set of rows corresponding to each item in the metadata item table (col. 12, lines 35-38).

Claim 56 is essentially the same as claim 25 except that it is directed to a system rather than a method, and is rejected for the same reason as applied to the claim 25 hereinabove.

Claim 57 is essentially the same as claim 26 except that it is directed to a system rather than a method, and is rejected for the same reason as applied to the claim 26 hereinabove.

Claim 58 is essentially the same as claim 27 except that it is directed to a system rather than a method, and is rejected for the same reason as applied to the claim 27 hereinabove.

Claim 59 is essentially the same as claim 28 except that it is directed to a system rather than a method, and is rejected for the same reason as applied to the claim 28 hereinabove.

Claim 60 is essentially the same as claim 29 except that it is directed to a system rather than a method, and is rejected for the same reason as applied to the claim 29 hereinabove.

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#### Conclusion

7. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

## **Contact Information**

8. Any inquiry concerning this communication should be directed to Anh Ly whose telephone number is (571) 272-4039 or via E-Mail: **ANH.LY@USPTO.GOV**. The examiner can be reached on TUESDAY – THURSDAY from 8:00 AM to 3:30 PM.

If attempts to reach the examiner are unsuccessful, see the examiner's supervisor, John Breene, can be reached on (571) 272-4107.

Any response to this action should be mailed to:

Commissioner of Patents and Trademarks

Washington, D.C. 20231

or faxed to: Central Fax Center (703) 872-9306

JEAN M. CORRIELUS PRIMARY EXAMINER

ANH LY / 2004